

DRILL HOLES

DRILL HOLES

DRILL HOLES

BORDER REV. DATE: June 1, 2004

PROJECT DESCRIPTION

I. GENERAL

This project involves the modification of an existing mast arm "Flag in the Air" at the intersection of MD 279 (Newark Ave) and James Street in Cecil County. The pedestrian signals across the north leg of MD 279 (Newark Ave) shall be upgraded to Countdown pedestrian signals with audible pushbuttons. MD 279 (Newark Ave) is assumed to run a north-south direction.

II. INTERSECTION OPERATION

- This intersection shall continue to operate as a pedestrian crossing signal with the MD 279 (Newark Ave) approaches running concurrently in a flashing yellow mode during school hours. Hazard Identification Beacons exist in advance of James Street along MD 279 (Newark Ave) and also flash yellow during school hours. The James Street approach shall operate in a flashing Red mode. The pedestrian phase across the north leg of the intersection shall now operate as a Countdown pedestrian phase with audible pushbutton actuation. During this phase all approaches shall continue to be steady RED.
- The existing full-traffic-actuated, eight-phase controller with all necessary equipment housed in a NEMA size "5" pole-mounted cabinet shall be utilized at this intersection.
- SHA signal shop shall install APS control unit into controller cabinet. The Contractor shall deliver the Control Unit and audible pushbuttons to the SHA Signal Shop for testing and programming.

III. SPECIAL NOTES

- The Contractor shall be responsible for terminating all signal cables, to the appropriate terminals and shall properly label each cable.
- All controller cabinet wiring will be performed by the S.H.A. Signal Shop. Contact Mr. Ed Rodenhizer at (410) 787-7652 seventy-two hours in advance of intended work.
- All underground and overhead utilities shown on these plans are schematic only and may not be complete. The Contractor shall be responsible for notifying Miss Utility prior to construction so that all utilities may be located in the field. If the Contractor perceives that a conflict between the utilities and the traffic signal will occur, the Contractor shall notify the Project Engineer immediately so that the conflict may be resolved.

The contact persons for District #2 and SHA are as follows:

Mr. Jeff Wentz  
Assistant District Engineer - Traffic  
Phone: (410) 810-3240

Mr. Mike Lewis  
Assistant District Engineer - Maintenance  
Phone: (410) 810-3250

Mr. Barry Clothier  
Assistant District Engineer - Utility  
Phone: (410) 810-3275

Mr. Richard L. Daff, Sr.  
Chief, Traffic Operations Division  
Phone: (410) 787-7630

Mr. Ed Rodenhizer  
Manager, Signal Operations Section  
410-787-7652

Mr. Sonny Bailey  
Manager, Sign Shop Operations  
410-787-7676

EQUIPMENT LIST

A. EQUIPMENT TO BE SUPPLIED BY S.H.A.

ITEM NO.	DESCRIPTION	QUANTITY
9571	Sheet aluminum signs to consist of: (pole mount)  Pedestrian education R10-3(1) sign (9"x15"). (Note: Sign to read "PUSHBUTTON TO CROSS NEWARK AVE".)	2 SF  2 EA

B. EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR

ITEM NO.	DESCRIPTION	QUANTITY
1001	Maintenance of traffic per assignment.	1 EA
2002	Test Pit Excavation	2 C.Y.
6001	Standard type A combination curb and gutter 12" gutter pan 8" depth.	85 L.F.
6002	5" concrete sidewalk.	400 S.F.
6003	Detectable warning surface for curb ramps	28 S.F.
8001	12" LED signal head section.	12 EA
8002	2 wire Central Control unit	1 EA
8004	8" LED signal head section.	4 EA
8008	Audible/tactile pedestrian pushbutton station & signs.	2 EA
8009	Breakaway Pedestal pole (10').	2 EA
8015	LED 16" countdown pedestrian signal head.	2 EA
8023	Remove and dispose of equipment per assignment.	1 EA
8038	Schedule 80 rigid PVC conduit up to 4" - trenched.	25 L.F.
8040	Install overhead or ground mounted sign (including all hardware).	2 S.F.
8042	No. 6 AWG stranded bare copper ground wire.	90 L.F.
8053	Electrical cable - 2 conductor (No. 14 AWG).	225 L.F.
8055	Electrical cable - 5 conductor (No. 14 AWG).	235 L.F.

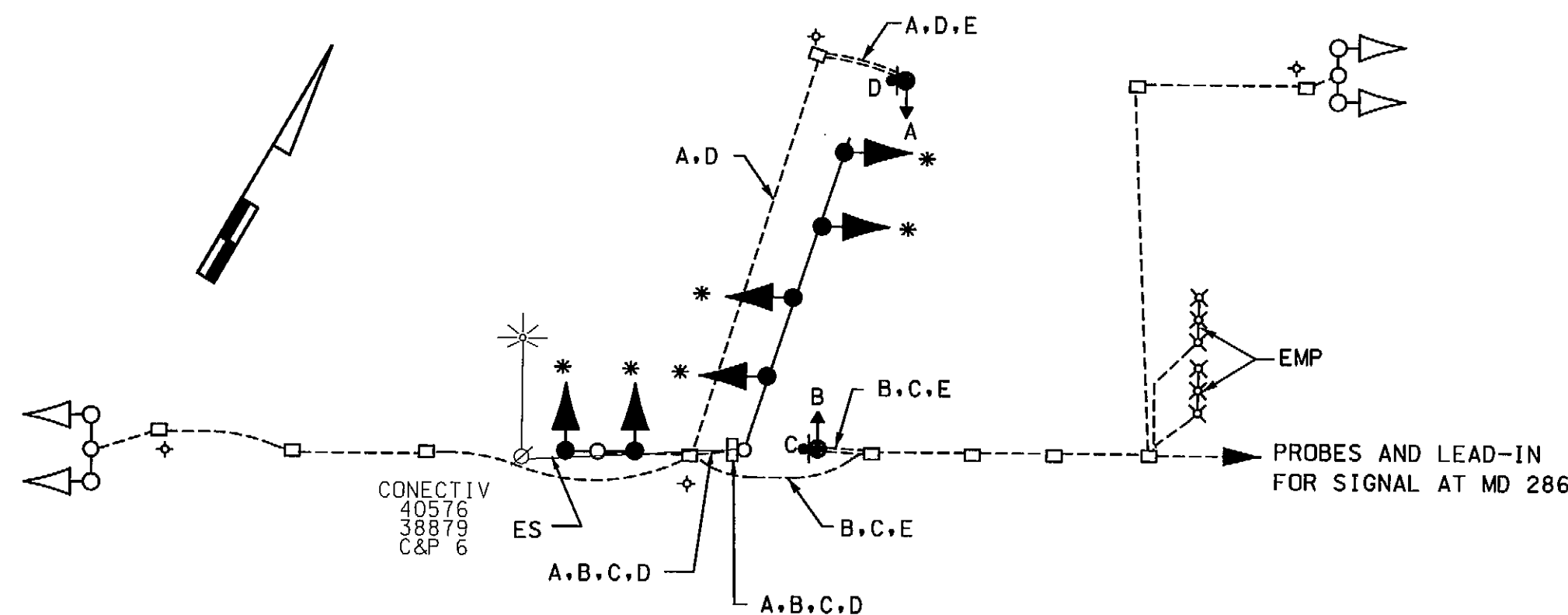
C. EQUIPMENT TO BE REMOVED

All removed signal materials are to become property of the contractor.

PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12
	(Y)	(Y)	(R) (Y)	(R) (Y)	(Y)	(Y)	(R) (Y)	(R) (Y)	(R) (Y)	(R) (Y)	(R) (Y)	(R) (Y)
NORMAL OPERATION	DARK	DARK	FL/ 8"Y	FL/ 8"Y	DARK	DARK	FL/ 8"Y	FL/ 8"Y	DARK FL/R	DARK FL/R	DW	DW
PED PHASE WARNING	FL/Y	FL/Y	Y	Y	FL/Y	FL/Y	Y	Y	R	R	DW	DW
PED PHASE	FL/Y	FL/Y	R	R	FL/Y	FL/Y	R	R	R	R	WK	WK
PED CLEAR	FL/Y	FL/Y	R	R	FL/Y	FL/Y	R	R	R	R	FL/DW	FL/DW
PED PHASE CHANGE	FL/Y	FL/Y	R	R	FL/Y	FL/Y	R	R	R	R	DW	DW
FLASHING OPERATION	DARK	DARK	FL/ 12"Y	FL/ 12"Y	DARK	DARK	FL/ 12"Y	FL/ 12"Y	DARK FL/R	DARK FL/R	DARK	DARK

WIRING DIAGRAM



WIRING KEY

A } 5-CONDUCTOR ELECTRICAL  
B } CABLE (NO. 14 A.W.G.)  
  
C } 2-CONDUCTOR ELECTRICAL  
D } CABLE (NO. 14 A.W.G.)  
  
E - STRANDED BARE COPPER GROUND  
WIRE (NO. 6 A.W.G.)  
  
\* - USE EXISTING WIRING  
  
EMP-EXISTING MICRO PROBE  
ES-EXISTING ELECTRICAL SERVICE  
TO BE MAINTAINED BY CONNECTIV  
♦ - GROUND ROD

TOD NO: XX661-23  
SHA NO: CE401B56  
MD 279 @ James Street

SHA

STATE OF MARYLAND  
DEPARTMENT OF TRANSPORTATION  
STATE HIGHWAY ADMINISTRATION

MD 279 (NEWARK AVENUE)  
AND JAMES STREET

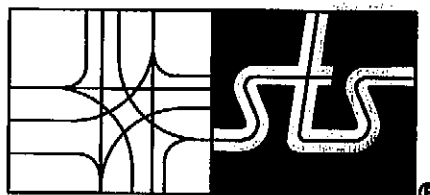
ELKTON, MARYLAND

GENERAL INFORMATION SHEET

SCALE NONE DATE 3/16/12 CONTRACT NO. XX6615185

DESIGNED BY R.R.Z. COUNTY CECIL  
DRAWN BY R.C. LOGMILE 07027901.51  
CHECKED BY TMS NO. L165  
F.A.P. NO. TOD NO.

TS NO. 4128C DRAWING NO. 3 OF 3 SHEET NO. OF



STREET TRAFFIC STUDIES, LTD.  
400 Crain Hwy., N.W.  
Beltway Plaza, Suite 200  
Ph (410) 590-5500 Fax (410) 590-6637

605861.DGN  
PLOTTED: \$DATE\$TIME\$  
FILE: \$FILE\$